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De *Luna* ad *Pleiades* reliquas Applicationibus, Anno 1672 observandis, promissa appendicula *Johannis Flamsteed*.

T Andem, *Clarissime Oldenburgi*, promissi memor, tempora reliquarum applicationum *Lunæ* ad *Pleiades*, Anno 1672 visibilibus, crassius editis *Sehedis* exhibita, præcisè hic indigitata ad Te mitto: *Stellis* loca assignavi infra scripta ex nuperis, & , ni fallor, accuratis observationibus; media prius lucida, eodem omnino loco, & latitudine donatâ, qua *Authori Carolino* (cujus in supputando utor numeris) ntique arrideat; ceteris etiam abinde dispositis; quas tamen omnes, propriam si hac in re sententiam sequi licuisset, tres vel saltem duos scrupulos primos promotiores, nec non & latiores ab *E-*liptica proponerem: Ineunte Anno 1672 constituta;

| Pleiadum. | | Long. | Lat. Bor. |
|--|----------|---------|-----------|
| <i>Occidentalis lucidior</i> ————— b | 24-45 15 | 4 8 51 | 5 |
| <i>Intra hanc & Borealiorem Telescopicam</i> g | 24-46 47 | 4 19 21 | 8 |
| <i>Occidentalis Borealiore</i> ————— c | 24-54 48 | 4 28 19 | 6 |
| <i>Supremi in Quadrilatero</i> ————— e | 25-01 24 | 4 20 39 | 5 |
| <i>Infima Australis opposita</i> ————— d | 25-02 18 | 3 53 59 | 6 |
| <i>Media & lucida</i> ————— a | 25-19 48 | 4 00 00 | 3 |
| <i>Qua in cuspide ad ortum</i> ————— f | 25-41 29 | 3 52 19 | 5 |
| <i>Orientalium superior telescopica</i> ————— h | 25-42 55 | 3 56 51 | 7 |

Inde cum Feb. 23 paulo ante mediam noctem appulsum ad hasce *Luna* faciet, *Mediam Austrino limbo* præcisè tacturam comperio, cum prius *Occidentalem lucidiorem Borealiorem & supremam in Quadrilatero* occultaverit.

Etenim *Londini*,

| Hor. | | Lat. * à Cent. D ^a |
|----------|--|-------------------------------|
| 11 01 00 | <i>Occidentalis lucidior</i> b tegitur | 12 30 Austr. |
| 11 10 37 | <i>Occidentalis borealiore</i> c absconditur | 7 30 Bor. |
| 11 18 04 | <i>Suprema in Quadrilat.</i> e occultatur | 0 16 Bor. |
| 11 41 48 | <i>Occidentalis lucidior</i> b prodit | 9 40 Austr. |
| 11 57 17 | <i>Occidentalis borealiore</i> c emergit | 10 11 Bor. |
| 12 12 10 | <i>Suprema in Quadrilat.</i> e evadit | 3 20 Bor. |

Præterea via *Luna* visibilis, & si versus *Orientales* inclinatur, vix tamen eas, ob minores latitudines, limbo *Australi* tanget, credo.

Iterum *Augusti 6*, manè *Luna* rursus *Stellas e & c* conteget nobis, sic ut horis à media nocte præcedente fiant

| b. | | b. |
|-----------|--|--------------|
| 1 31 26 | <i>Occidentalis borealiore</i> c obtectio: | 3-42 Bor. |
| 1 41 29 | <i>Suprema in Quadrilatero</i> e occultatio: | 5-16 Austr. |
| 2 39 23 | <i>Occidentalis borealiore</i> c emersio: | 2-37 Austr. |
| 2 45 16 | <i>Suprema in Quadrilatero</i> e evasio: | 10-50 Austr. |
| E e e e 2 | | Denno |

Denuo Octobris 26, paulo ante mediam noctem easdem duas nostro conspectui surripiet ; ut

| <i>h.</i> | | | | | |
|-----------|----|----|---|---------------------------------------|--------------|
| 11 | 33 | 24 | c | Occidentalis borealior abscondatur : | 0' 14" Bor. |
| 11 | 51 | 52 | c | Suprema in Quadrilatero occultetur : | 8. 24 Austr. |
| 12 | 41 | 29 | c | Occidentalis borealior eluctetur : | 3 18 Austr. |
| 12 | 46 | 37 | c | Suprema in Quadrilatero exsplendeat : | 11 14 Austr. |

Postremo Decembris 20, borealiorem occidentalem c subteget Luna, cujus conspicietur p. m.

| <i>h.</i> | | | | | |
|---------------|---|---------|--------------|---------------|----------|
| Occultatio | — | 9 02 36 | } Lat. * à { | Ingr. 11' 25" | } Austr. |
| Refectio | — | 9 50 44 | | Emer. 11 31 | |
| Mora sub Luna | | 48 08 | | | |

Interea suprema in Quadrilatero c clarè exabit à Luna, quàm-cum secundum longitudinem conjungetur stella hora 9'. 40'. 17", quo tempore à centro Luna apparens latitudo 19'. 10", Luna visibilis semidiameter 16'. 27" : Stabit propterea stella à limbo Austrino Luna 2'. 43". ad Austrum. Quod an ita cœlitus fiet, an secus, inter cetera sequentis anni Phenomena, cœlorum Studiosis observandum proponimus. Edite porro Synopsi, ii Luna motus adnectantur, quos ad tempora apparentiarum indaganda è dictis tabulis computavi, qui sunt ;

| | <i>Anom. med. à ☉ equ.</i> | <i>Arg. Lat.</i> | <i>Faral. Semic.</i> | <i>Horos. Alt.</i> | <i>Apar.</i> |
|----------------------|----------------------------|------------------|----------------------|--------------------|----------------|
| <i>h.</i> | <i>S. o. "</i> | <i>S. o. "</i> | <i>S. o. "</i> | <i>S. o. "</i> | <i>S. o. "</i> |
| Feb. 23. 12. 12. 40 | 5 21.55. 62 | 2. 9. 54. 59 | 2. 11. 54. 46 | 63. 42 | 17. 13 |
| Aug. 5. 13. 44. 49 | 5. 05. 34. 20 | 9. 2. 03. 20 | 2. 17. 35. 57 | 03. 10 | 17. 14 |
| Octob. 26. 13. 3. 39 | 4. 25. 48. 51 | 6. 10. 37. 4 | 2. 23. 56. 43 | 59. 24 | 16. 18 |
| Dec. 20. 10. 16. 51 | 4. 23. 28. 51 | 4. 17. 50. 23 | 2. 24. 26. 32 | 60. 04 | 16. 27 |

Sic cum opportunitates, tum commoda observationum premonstravi, quibus si sedulo fidi Cœlispices invigilaverint, nec suas nobiscum observationes communicare gravati fuerint, hos labores sat bene compensatos arbitrabimur.

Veruntamen, si etiamnum quæras, è quibus observationibus Pleiadum loca ita restituerim, nec id Te celari velim. Tubum habeo pedum 13 $\frac{2}{3}$, lentibus convexis, & micrometore exactissimo Townleiano (mihi a viro cordato, & horum studiorum amantissimo, Jona. More, donato) instructum ; quo cum noctibus serenioribus mensium Octobris & Novembris, nuper elapsorum, minutas frequenter harum stellarum interapedines dimensus sum, idque adeo aspiciato, ut nunquam 20", imò perraro 10". inter se dissiderent repetite observationes ; à pregressis etiam defuncti D. Gascognii, & nuperis Generosissimi Townleii (quantorum hominum !) eadem ratione peractis observationibus, confirmata ; qua quidem distantie limatissime, & in locis Latitudinisque Pleiadum investigandis usitate ; sunt,

| | | | |
|-----|-----|--------|-----------------|
| a b | 35' | 40". | Muto <i>que</i> |
| a c | 27 | 40 ——— | 31' |
| e b | 20 | 00 ——— | 32 |
| c b | 21 | 45 ——— | 22 |
| e c | 10 | 00 ——— | 11 |
| e g | 14 | 40 | |
| c g | 11 | 55 | |
| b d | 22 | 04 ——— | 24 |
| a d | 18 | 30 ——— | 22 |
| c d | 26 | 10 ——— | 30 |
| d i | 16 | 25 | |
| a i | 18 | 18 | |
| f i | 29 | 04 | |
| f a | 23 | 00 ——— | 27 |
| h a | 23 | 20 | |
| f h | 4 | 45 ——— | 4 |

Addit Vinc. Mutus in Epistola ad Doctissimum Ricciolum, cujus meminit in Appendice ad Almagesti Novi Tomum primum pag. 747: Occidentalem lucidiorem transisse meridianum in eadem omnino altitudine ac Lucidam Pleiadum: Quod fretus adversione haud difficile mihi fuit, invento prius angulo paraleli declinationis, cum parallelo latitudinis, triangulorum resolutione, ceteras omnes stellulas locis debitis & datis donare.

Monendum tantummodo, me stellam Telescopicam i, (nonne circiter lucis, qua secunda est quarundam in linea de-torta à Media & Lucida perpenden-

dentium, & reperitur in $25^{\circ}.14'.4''$. cum latitudine $3^{\circ}.42'.37''$;) propterea meis observationibus adscivisse, ut ejus adjutorio stellas, f & h, locis debitis accuratius disponerem; quod absque ea affectum dare admodum difficile fuisset, quam propterea, cum ulterius usui esse non possit, cum ceteris antea non numeravimus. Interim si plurimum à Tychonicis & Mutianis locis, nostri dissidere videantur, nec nobis id culpe verum velim, nec illis, qui, nostris destituti subsidii, Tubo nimirum, vel exquisito Micrometro, in hanc precisionem suas provehere observationes nentiquam potuerunt.

* c

* e

* g

* b

* a

* h

* d

* i

* j

* k